For digital enterprises, software must "shift left" to support mainframe and modern legacy applications as a top dependency to keep pace with pipeline, scale automation with AI technology, and aligning it with related systems of record (SOR) and location to mitigate maintenance efforts — testing benefits from AI via computer vision and machine learning (ML) for object identification.

- RPA for operations automation and quality coordination
- Manual testing efforts and lack of automation was a leading challenge
- Increasing demand for efficiency and scriptless testing, behavior-driven-development, communities of practice strategies such as continuous testing, AI-driven test automation, model-based management of tests, etc.

Sustainable software-based innovation compels timely, comprehensive quality strategy to successfully migrate while also providing business continuity for improved decision-making, modeling, and monitoring in application delivery. Demanded for High-Quality – e.g., functionality, performance, security, customer experience

Leading causes of increased test effort:
- Testing imperatives exist for safe, secure, and quality strategies leveraging artificial intelligence models enable self-learning where data is gathered to augment capabilities and increase efficiency.
- AI/analytics is a top area for IT-focused spending; DX and hybrid work are boosting AI usage via automation, and leverage of AI/ML augmentation as it evolves.

Most organizations seek tools that enable efficient script management and metrics to help address skills barrier with natural language processing.

Message from the Sponsor

IDC recognizes the growing importance of technologies that help automate mundane, error-prone tasks. RPA for operations automation and quality coordination is enabling organizations to address latency, non-functional testing, and non-technical users.

IDC’s 5th Annual Developer Executive Summary – May 2021

- 60% of developers said they had adopted AIOps in the past 12 months.
- 60% of developers said they had adopted AI/ML development in the past 12 months.
- Over 40% of full-time developers focused on AI/ML development in the next 12 months.

IDC PaaSView and the Developer Executive Summary, June 2022, n=2500


Learn more about optimizing your software development and quality strategies leveraging artificial intelligence.

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